1. Split this string

```
Basic Python
s = "Hi there am Harini!"
s.split()
['Hi', 'there', 'am', 'Harini!']
2. Use .format() to print the following string.
Output should be: The diameter of Earth is 12742 kilometers.
planet = "Earth"
diameter = 12742
print('The diameter of {} is {}
kilometers.' .format(planet,diameter));
The diameter of Earth is 12742 kilometers.
3. In this nest dictionary grab the word "hello"
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':
[1,2,3,'hello']}]}]
d['k1'][3]['tricky'][3]['target'][3]
{"type":"string"}
KevError
                                            Traceback (most recent call
last)
<ipython-input-22-c5fa21723ab8> in <module>
----> 1 d['k1'][3]['tricky'][3]['target'][3]
KeyError: 'k1'
Numpy
import numpy as np
4.1 Create an array of 10 zeros?
4.2 Create an array of 10 fives?
a = np.zeros(10)
а
```

```
array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])
b = np.ones(10)*5
b
array([5., 5., 5., 5., 5., 5., 5., 5., 5.])
5. Create an array of all the even integers from 20 to 35
S = np.arange(20,35,2)
array([20, 22, 24, 26, 28, 30, 32, 34])
6. Create a 3x3 matrix with values ranging from 0 to 8
b = np.arange(0,9).reshape(3,3)
array([[0, 1, 2],
       [3, 4, 5],
       [6, 7, 8]])
7. Concatenate a and b
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
a = np.array([1,2,3])
b = np.array([4,5,6])
np.concatenate((a,b),axis=0)
array([1, 2, 3, 4, 5, 6])
from google.colab import drive
drive.mount('/content/drive')
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

```
9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
P = pd.date_range(start='1-1-2023',end='10-2-2023')
for val in P:
  print(val);
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10. Create 2D list to DataFrame

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
df = pd.DataFrame(lists)
df
   0
         1
             2
            22
   1
      aaa
   2
      bbb
            25
2
   3
      CCC
            24
```